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University of California
College of Agriculture
Agricultural Experiment Station
Berkeley, California

SEASONAL LABOR NEEDS FOR CALIFORNIA CROPS

SAN BERNARDINO COUNTY

Progress Report No. 36

by

R. L. Adams

Preliminary -- Subject to Correction

October, 1936

Contribution from the
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Progress Report No. 36

Seasonal Labor Needs for California Crops

San Bernardino County

Scope of Presentation.--- The following considerations govern the presentation of this progress report:

1. The data are confined to the area indicated above.
2. The data are confined solely to crops, livestock needs being ignored.
3. The findings apply only to occasional or seasonal labor requirements as distinguished from labor contributed by farm operators and by workers employed on a year-round or regular basis of employment.
4. The presentation includes the so-called migratory, transient, or roving workers which comprise an important source of help needed in connection with certain tasks and at "peak" times which seasonally arise in connection with many field, truck, and fruit crops commercially produced in California.
5. This report is confined to California's need for seasonal agricultural workers because of the more pressing problems liable to arise in connection therewith. A later study is planned which will deal with other kinds of labor involved in the production of California's many crops.

Brief Description of the Area.--- San Bernardino is one of the southern counties of California. Its southwest corner is about 30 miles east of the city of Los Angeles. It is bordered on the west by Los Angeles and Kern counties, along a boundary which extends northward about 125 miles. On the north it joins Inyo County for about 110 miles eastward to the Nevada line. The boundary follows the state line southeastward to the Colorado River, which, from this point, forms the boundary between San Bernardino County and Arizona on the east. On the south it is bounded for its full length of about 260 miles by Riverside County, except for a short distance at the southwest corner where it joins Orange County.

San Bernardino has the largest total area of any county in the state. The agricultural district, however, makes up but a small portion of the total and is largely concentrated in the southwest corner, contiguous to a number of important cities and towns among which are San Bernardino, Redlands, Colton, Ontario, Upland, Chino, Cucamonga, Yucaipa, and others. It is adjacent to Los Angeles County on the west and Orange and Riverside counties on the southwest and south. There is also a limited area of land formed along the Mojave River, between Victorville and Barstow in the central-western part of the county.

The county contains a total of 12,912,000 acres of which 183,814 acres are classed as available for crops by the 1935 Census. This is further classified as follows by the Census for the crop year 1934.

Seasonal Labor Needs for California Crops

San Bernardino County

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2. The data are confined solely to crops. Livestock needs being ignored.
3. The findings apply only to occasional or seasonal labor requirements as distinguished from labor contributed by farm operators and by workers employed on a year-round or regular basis of employment.
4. The presentation includes the so-called migratory, transient, or roving workers which comprise an important source of help needed in connection with certain tasks and at "peak" times which seasonally arise in connection with many fruits, truck, and fruit crops substantially produced in California.
5. This report is confined to California's need for seasonal agricultural workers because of the more pressing problems liable to arise in connection therewith. A later study is planned which will deal with other kinds of labor involved in the production of California's many crops.

Brief Description of the Area -- San Bernardino is one of the northern counties of California. Its southeast corner is about 60 miles west of the city of Los Angeles. It is bordered on the west by Los Angeles and Kern counties, along a boundary which extends northward about 125 miles. On the north it joins Inyo County for about 110 miles eastward to the Nevada line. The boundary follows the state line southward to the Colorado River, which, from this point, forms the boundary between San Bernardino County and Arizona on the south. On the south it is bounded for its full length of about 230 miles by Riverside County, except for a short distance at the southeast corner where it joins Orange County.

San Bernardino has the largest total area of any county in the state. The agricultural district, however, makes up but a small portion of the total area. Largely concentrated in the northwest corner, contiguous to a cluster of important cities and towns among which are San Bernardino, Redlands, Colton, Ontario, Upland, Chino, Cucamonga, Pico, and others, it is adjacent to Los Angeles County on the west and Orange and Riverside counties on the southeast and south. There is also a limited area of land formed along the Mojave River, between Redlands and Barstow in the central-western part of the county.

The county contains a total of 12,912,000 acres of which 532,814 acres are classed as available for crops by the 1935 Census. This is further classified as follows by the Census for the crop year 1934:

	<u>Acreage</u>
Crop land harvested	134,434
Crop failure	2,456
Crop land idle or fallow	33,057
Flowable pasture	<u>13,867</u>
Total land available for crops	183,814

Crop acreages, as determined from the report of the County Agricultural Commissioner, for the year 1935 are as follows:

	<u>Acreage</u>
Field crops	<u>44,851</u>
Vegetable crops	4,216
Orchard and vineyard, bearing	92,831
Orchard and vineyard, nonbearing	<u>7,494</u>
Total	149,392

Crops, Acreage, and Production.-- The basis used in calculating occasional or seasonal need for labor in addition to that furnished by farm operators and regularly employed workers appears as table 1.

TABLE 1

Basis for Calculating Seasonal Labor Requirements -- San Bernardino County

Crops	Acreage	Production
Field crops:		
Alfalfa hay	12,820	64,100 tons
Beans	3,078	31,279 sacks
Corn - Milo	651	5,563 sacks
for ensilage	1,328	18,620 tons
Grain	6,681	134,795 sacks
Grain hay	16,317	27,585 tons
Potatoes - Irish	1,157	138,415 sacks
sweet	910	302,545 packed lugs
Sugar beets	1,595	19,862 tons
Vegetable crops:		
Corn - sweet	1,888	416,050 lugs
Melons*	342	2,801 tons
Pumpkins and squash*	159	833 tons
Tomatoes	1,432	10,673 tons
Miscellaneous vegetables	554	--

(Table continued on next page.)

Group averages, as determined from the report of the County Agricultural Commissioner, for the year 1938 are as follows:

153,314	Total land available for crops
15,657	Plowable pasture
33,067	Crop land idle or fallow
2,456	Crop failure
134,134	Crop land harvested
<u>153,314</u>	Average

149,392	Total
7,434	Orchard and vineyard, nonbearing
92,831	Orchard and vineyard, bearing
4,316	Vegetable crops
<u>149,392</u>	Field crops
<u>149,392</u>	Average

Group, Average, and Production. -- The data used in calculating seasonal or seasonal need for labor in addition to that furnished by farm operators and regularly employed workers appears as Table 1.

TABLE 1

DATA FOR CALCULATING SEASONAL LABOR REQUIREMENTS -- FOR BERKSHIRE COUNTY

Crops	Average	Production
Field crops:		
Alfalfa hay	12,430	64,100 tons
Beans	2,078	31,278 sacks
Corn - White	681	2,668 sacks
For silage	1,318	10,830 tons
Grain	6,881	134,738 sacks
Grain hay	10,317	6,883 tons
Forage - Irish	1,157	13,418 sacks
Sweet	910	302,548 packed jars
Sugar beets	1,852	18,852 tons
Vegetable crops:		
Corn - Sweet	1,828	416,050 jars
Peas	342	2,801 tons
Pumpkins and squashes	152	822 sacks
Tomatoes	1,132	10,678 jars
Miscellaneous vegetables	624	—

(Table continued on next page.)

Table 1 continued.

Crops	Acreage	Production
Fruit crops:		
Almonds*	88	16 tons
Apples	1,524	5,221 tons †
Apricots	750	2,392 tons
Avocados	39	44,800 pounds
Berries (Chino district only)	134	35,700 crates ‡
Cherries	204	178 tons
Citrus fruits - grapefruit	2,555	727,000 field boxes of 45 pounds ¶
oranges - navel	29,735	11,056 cars)
oranges - Valencia	10,229	5,166 cars) 13,300,000 field
oranges - miscellaneous	1,629	588½ cars) boxes of 47 pounds ¶
lemons	4,456	2,713 cars -- equivalent to 1,709,000 field boxes of 50 pounds
Figs*	29½	35 tons
Grapes	26,383	53,454 tons
Olives	836	387 tons
Peaches - cling	2,711	8,121 tons
freestone	2,281	5,539 tons
Pears*	209	141 tons
Plums	275	840 tons
Persimmons*	54	78 tons
Walnuts	9,831	3,481 tons

* Use of seasonal labor inconsequential and hence ignored.

† Production of apples is compiled as follows: 225,290 boxes at 40 pounds each plus 718 tons culls.

‡ Total county production was 56,270 crates.

¶ Production of grapefruit is compiled as follows: 482,421 packed boxes (56 pounds net) plus 5,711,681 pounds loose fruit and culls.

¶ Production of oranges is compiled as follows: 7,732,943 packed boxes (72 pounds net) plus 69,339,669 pounds loose fruit and culls.

|| Basis of calculation: 630 field boxes required per car -- 2,713 cars.

Operations Requiring Use of Seasonal Labor and Time of Need.-- Farm operations requiring use of seasonal or occasional labor for the various crops raised in San Bernardino County are indicated in table 2. This tabulation does not include the employing of shed workers needed to wash, pack, and prepare various commodities for shipping and marketing.

Table 1 continued.

Crops	Average	Production
Fruit crops:		
Almonds	88	18 tons
Apples	1,824	5,221 tons †
Apricots	780	2,392 tons
Avocados	39	4,800 pounds
Berries (Chino district only)	134	38,700 crates †
Cherries	204	178 tons
Citrus fruits - grapefruit	2,266	27,000 field boxes of 48 pounds ‡
Oranges - naval	22,735	11,038 cases
Oranges - Valencia	10,229	5,188 cases
Oranges - miscellaneous	1,829	885 cases
Lemons	1,186	2,715 cases - equivalent to 1,708,000 field boxes of 50 pounds §
Peaches	22	38 tons
Grapes	22,262	13,466 tons
Olive	386	387 tons
Peaches - cling	2,711	8,121 tons
Pistachios	2,281	5,232 tons
Pears	203	141 tons
Pine	275	640 tons
Persimmons	24	78 tons
Walnuts	9,221	2,431 tons

* Use of seasonal labor (nonseasonal) and home production.

† Production of apples is compiled as follows: 222,200 boxes of 48 pounds each plus 718 tons culls.

‡ Total county production was 26,270 crates.

§ Production of grapefruit is compiled as follows: 402,421 packed boxes (56 pounds net) plus 2,711,801 pounds loose fruit and culls.

¶ Production of oranges is compiled as follows: 7,712,945 packed boxes (62 pounds net) plus 68,239,869 pounds loose fruit and culls.

|| Basis of calculation: 530 field boxes required for 1 acre - 2,715 acres.

Operations requiring use of seasonal labor and time of need - Pears
operations requiring use of seasonal or permanent labor for the winter season
retired in San Bernardino County are indicated in Table 2. This table has not
included the employing of shed workers needed to pack, pack, and process various
commodities for shipping and marketing.

TABLE 2

Operations Requiring Use of Seasonal Labor and Times of Needs by Crops
San Bernardino County

Crop	Operation	Time of need
Field crops: Alfalfa	Mowing, raking, and shocking -75 per cent by seasonal workers	April) May) June) 11,000 acres each July) month -- six cuttings August) five weeks apart September) October)
	Baling (75 per cent of crop equals 48,075 tons) -- 75 per cent by seasonal workers	April) May) June) 6,868 tons per month July) August) September) October)
Beans	Piling -- with fork	August 15-31 -- 10 per cent of crop September 1-30 -- 80 per cent of crop October -- 10 per cent of crop
	Threshing	August -- 5 per cent of crop September -- 80 per cent of crop October -- 15 per cent of crop
Corn - Milo (for grain)	Cutting heads, by hand	December -- 50 per cent of acreage
	Threshing by stationary Cutting by combine	December -- 50 per cent of crop December -- 50 per cent of acreage
Corn - Milo (for ensilage)	Cutting by hand and loading trucks	September 20-30 -- 15 per cent of acreage October 1-30 -- 50 per cent of acreage November 1-20 -- 35 per cent of acreage
	Threshing by stationary (50 per cent of crop) -- 90 per cent by seasonal workers	June -- 35 per cent of crop July -- 15 per cent of crop
Grain	Harvesting by combine -- 60 per cent by seasonal workers	June -- 50 per cent of acreage

(Table 2 continued on next page.)

TABLE 2

Operating and Harvesting Use of Seasonal Labor and Times of Needs by Crop
San Bernardino County

Crop	Operation	Time of Need
Alfalfa	Mowing, raking, and shocking -75 per cent by seasonal workers	April May June July August September October
Barn	Baling (75 per cent of crop equals 48,075 tons) -75 per cent by seasonal workers	April May June July August September October
Barley	Threshing	August 15-31 -- 10 per cent of crop September 1-30 -- 80 per cent of crop October -- 10 per cent of crop
Corn - Milo (for malage)	Threshing by stationary Cutting by combine	August -- 5 per cent of crop September -- 80 per cent of crop October -- 15 per cent of crop
Corn - Milo (for malage)	Getting heads, by hand	December -- 50 per cent of crop
Corn - Milo (for malage)	Threshing by stationary Cutting by combine	December -- 50 per cent of crop January -- 50 per cent of crop
Corn - Milo (for malage)	Getting by hand and loading trucks	September 20-30 -- 10 per cent October 1-30 -- 50 per cent of crop November 1-30 -- 30 per cent of crop
Grain	Threshing by stationary (50 per cent of crop) -50 per cent by seasonal workers	July -- 10 per cent of crop August -- 30 per cent of crop
Grain	Harvesting by seasonal workers	June -- 50 per cent of crop

(Table 2 continued on next page.)

Table 2 continued.

Crop	Operation	Time of need
Field crops: (continued)		
Grain hay	Mowing, raking, and shocking -- 50 per cent by seasonal workers	May 1-31
	Trimming (25 per cent of acreage)--50 per cent by seasonal workers	May 15-31 -- $12\frac{1}{2}$ per cent of acreage June 1-15 -- $12\frac{1}{2}$ per cent of acreage
	Baling -- 75 per cent by seasonal workers	June 1-30 -- 75 per cent of crop July 1-31 -- 25 per cent of crop
Potatoes - Irish	Cutting seed	March
	Picking up, grading, and putting in lugs or sacks	June 20-30 -- 25 per cent of crop in lugs July 1-31 -- 75 per cent of crop in sacks
Potatoes - sweet	Pulling plants from hotbed	May
	Planting in field (by machine)--80 per cent by seasonal workers	May
	Picking up, hauling in, and dumping -- 80 per cent by seasonal workers	October 15-31 -- 25 per cent of crop November 1-15 -- 25 per cent of crop
	Picking up and packing in field -- 80 per cent by seasonal workers	October 15-31 -- 25 per cent of crop November 1-15 -- 25 per cent of crop
Sugar beets	Thinning	February 20-28 -- 5 per cent of acreage March -- 20 per cent of acreage April -- 50 per cent of acreage May -- 25 per cent of acreage
	Hoeing -- first time	March 20-31 -- 5 per cent of acreage April 1-30 -- 20 per cent of acreage May 1-30 -- 50 per cent of acreage June 1-30 -- 25 per cent of acreage
	Hoeing -- second time	May -- 20 per cent of acreage June -- 50 per cent of acreage

(Table 2 continued on next page.)

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<p>10. The tenth part of the report deals with the appendix of the report.</p>	<p>11. The eleventh part of the report deals with the bibliography of the report.</p>	<p>12. The twelfth part of the report deals with the index of the report.</p>
<p>13. The thirteenth part of the report deals with the list of figures of the report.</p>	<p>14. The fourteenth part of the report deals with the list of tables of the report.</p>	<p>15. The fifteenth part of the report deals with the list of maps of the report.</p>
<p>16. The sixteenth part of the report deals with the list of abbreviations of the report.</p>	<p>17. The seventeenth part of the report deals with the list of symbols of the report.</p>	<p>18. The eighteenth part of the report deals with the list of units of the report.</p>
<p>19. The nineteenth part of the report deals with the list of references of the report.</p>	<p>20. The twentieth part of the report deals with the list of sources of the report.</p>	<p>21. The twenty-first part of the report deals with the list of documents of the report.</p>
<p>22. The twenty-second part of the report deals with the list of publications of the report.</p>	<p>23. The twenty-third part of the report deals with the list of works of the report.</p>	<p>24. The twenty-fourth part of the report deals with the list of books of the report.</p>

Table 2 continued.

Crop	Operation	Time of need
Sugar beets (continued)	Topping and loading	August 1-31 -- 39 per cent of crop September 1-30 -- 38 per cent of crop October 1-31 -- 23 per cent of crop
Vegetable crops: Sweet corn	Suckering	June 15-30 -- 20 per cent of acreage July 1-31 -- 60 per cent of acreage August 1-31 -- 20 per cent of acreage
	Picking and packing -- 50 per cent by seasonal workers	July 15-31 -- 10 per cent of crop August -- 35 per cent of crop September -- 35 per cent of crop October -- 20 per cent of crop
Tomatoes	Transplanting to field by hand	April -- 10 per cent of acreage May -- 90 per cent of acreage
	Hoeing -- two times	May) June) two-thirds of acreage July) each month
	Dusting -- three times	May) June) once, all acreage July)
	Picking	August -- 20 per cent of crop September -- 40 per cent of crop October -- 40 per cent of crop
Fruit crops:		
Almonds -- use of seasonal labor inconsequential -- hence ignored.		
Apples	Pruning -- 20 per cent by seasonal labor	November 20-30 -- 5 per cent of acreage December -- 30 per cent of acreage January -- 30 per cent of acreage February -- 20 per cent of acreage March -- 10 per cent of acreage
	Thinning (two-thirds of acreage) 75 per cent by seasonal workers	June 15-30 -- 25 per cent of acreage July 1-31 -- 75 per cent of acreage

(Table continued on next page.)

<p>1. The first part of the report deals with the general situation of the country and the progress of the work during the year.</p>		
<p>2. The second part of the report deals with the results of the work done during the year.</p>		
<p>3. The third part of the report deals with the financial statement of the year.</p>		
<p>4. The fourth part of the report deals with the general remarks of the committee.</p>		
<p>5. The fifth part of the report deals with the conclusions of the committee.</p>		
<p>6. The sixth part of the report deals with the recommendations of the committee.</p>		

Table 2 continued

Crop	Operation	Time of need
Apples (continued)	Picking	September -- 20 per cent of crop October -- 70 per cent of crop November -- 10 per cent of crop
	Packing -- 66 per cent of crop	September -- 13 per cent of crop October -- 47 per cent of crop November -- 6 per cent of crop
Apricots	Picking	June 25-30 -- 15 per cent of crop July 1-25 -- 85 per cent of crop
	Cutting	June 25-30 -- 15 per cent of crop July 1-25 -- 85 per cent of crop
	Other dry-yard work	June 25-30 -- 15 per cent of crop July 1-25 -- 85 per cent of crop
Avocados -- use of seasonal labor inconsequential -- hence ignored.		
Berries - young-berries	Picking (Chino district only) 90 per cent by seasonal workers	May 20-30 -- 15 per cent of crop June 1-30 -- 80 per cent of crop July 1-4 -- 5 per cent of crop
Cherries	Picking	June
	Sorting and packing	June
Citrus - grapefruit	Picking	May -- 8 per cent of crop June -- 19 per cent of crop July -- 22 per cent of crop August -- 21 per cent of crop September -- 13 per cent of crop October -- 7 per cent of crop Balance scattered and inconsequential.
oranges	Picking* -- navels, Valencias, and miscellaneous	November -- 2.4 per cent of crop December -- 3.7 per cent of crop January -- 10.7 per cent of crop February -- 15.4 per cent of crop March -- 18.6 per cent of crop April -- 19.7 per cent of crop May -- 5.1 per cent of crop June -- 4.7 per cent of crop July -- 5.4 per cent of crop August -- 4.2 per cent of crop September -- 4.7 per cent of crop October -- 5.3 per cent of crop

(Table 2 continued on next page.)

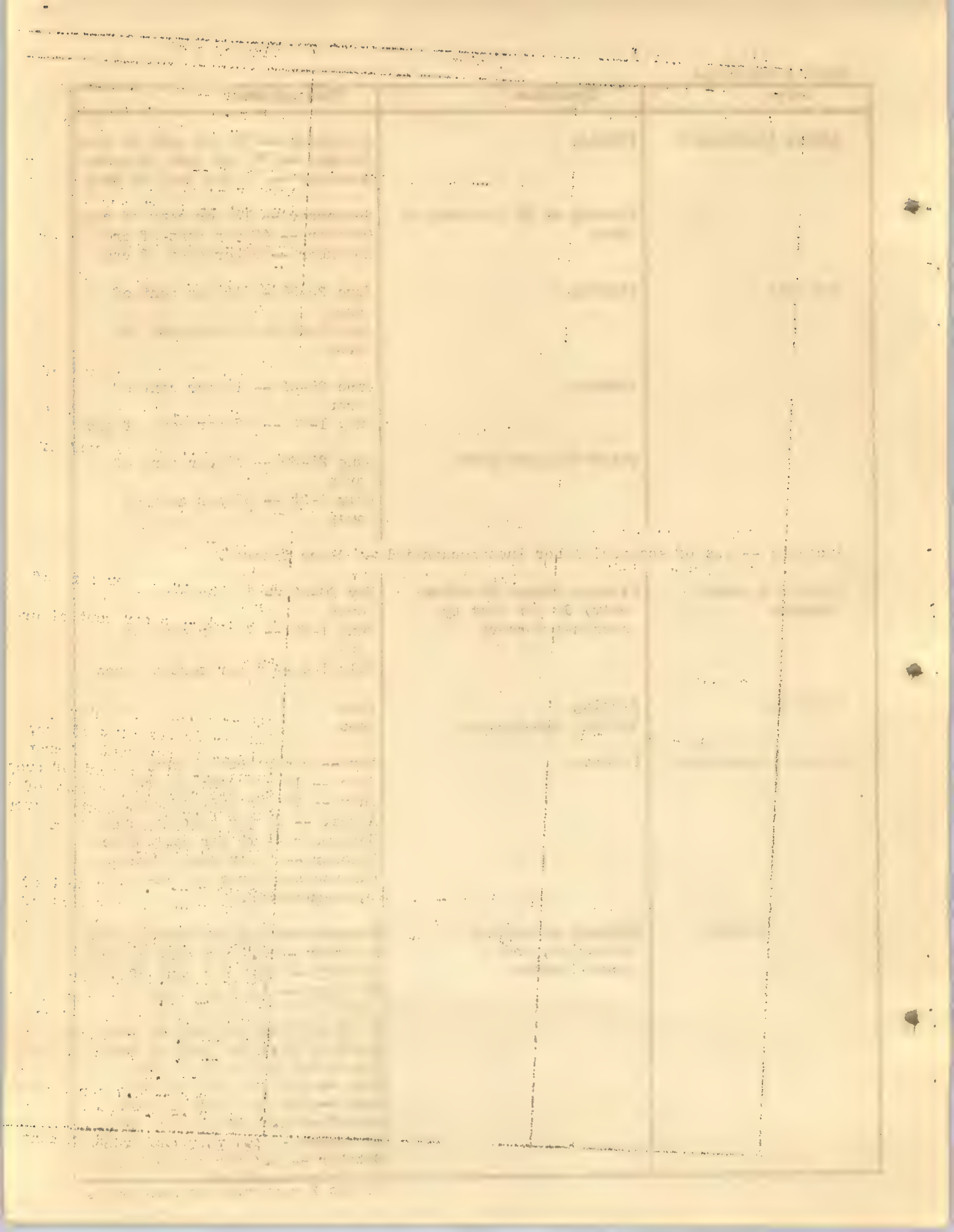


Table 2 continued.

Crop	Operation	Time of need
Citrus (continued) lemons	Picking †	November -- 5 per cent of crop December -- 5 per cent of crop January -- 10 per cent of crop February -- 6 per cent of crop March -- 19 per cent of crop April -- 14 per cent of crop May -- 20 per cent of crop June -- 8 per cent of crop July -- 4 per cent of crop August -- 2 per cent of crop September -- 3 per cent of crop October -- 4 per cent of crop
Figs -- use of seasonal labor inconsequential -- hence ignored.		
Grapes	Pruning -- 75 per cent by seasonal workers	December 15-31 -- 10 per cent of acreage January 1-31 -- 50 per cent of acreage February 1-28 -- 40 per cent of acreage
	Burning brush -- 50 per cent by seasonal workers	December 15-31 -- 10 per cent of acreage January 1-31 -- 50 per cent of acreage February 1-28 -- 40 per cent of acreage
	Hoeing	April -- all acreage
	Suckering	April 21-30 -- 50 per cent of acreage
		May 1-7 -- 50 per cent of acreage
	Sulphuring - three times	April -- all acreage May -- all acreage June -- all acreage
Peaches - cling	Picking	September -- 40 per cent of crop October -- 40 per cent of crop November -- 20 per cent of crop
	Thinning -- 66 per cent by seasonal workers	May 10-30 -- two-thirds of acreage June 1-10 -- one-third of acreage
	Picking -- 75 per cent by seasonal workers	August -- 80 per cent of crop September -- 20 per cent of crop

(Table 2 continued on next page.)

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Table 2 continued.

Crop	Operation	Time of need
Peaches - freestone	Pruning -- 50 per cent by seasonal workers	January -- 50 per cent of acreage February -- 50 per cent of acreage
	Thinning -- 75 per cent by seasonal workers	April 20-30 -- 10 per cent of acreage May 1-31 -- 80 per cent of acreage June 1-10 -- 10 per cent of acreage
	Picking	June -- 15 per cent of crop July -- 20 per cent of crop August -- 60 per cent of crop September -- 5 per cent of crop
	Packing -- 75 per cent of crop	June -- 15 per cent of crop July -- 20 per cent of crop August -- 60 per cent of crop September -- 5 per cent of crop
Pears -- use of seasonal labor inconsequential -- hence ignored.		
Plums	Thinning	May
	Picking	July -- 75 per cent of crop August -- 25 per cent of crop
Persimmons -- use of seasonal labor inconsequential -- hence ignored.		
Walnuts	Shaking off, picking up, and hulling by hand.	September -- 45 per cent of crop October -- 45 per cent of crop November -- 10 per cent of crop

* Distribution of picking labor by months on oranges is estimated from monthly carlot shipments of oranges from Riverside County during 1935.

† Distribution of picking labor by months on lemons is estimated from monthly lemon "pick" of the Ontario-Cucamonga Fruit Exchange 1935-36 season.

Findings of Seasonal Labor Needs.-- Details and summaries of seasonal labor requirements of San Bernardino County agriculture are presented as table 3. The "size of job" are figures drawn from table 1 in terms of either acreage or production in tons, crates, boxes or whatever unit is commonly used. The "output per-man day" is an average figure for the entire acreage or output, figured in pounds, crates, hampers, or boxes, etc., on harvest jobs, or in acreage. If the work is of a nature that requires a crew, different members of which perform different tasks, then the average shown is per man, based on the entire crew. Length of day is 9 hours unless otherwise stated. Wide variations in output occur between farm and farm, field and field, season and season, because of differences in soil types, climatic conditions, weeds, yields, and other factors influencing the amount of work that a laborer can perform in a given day. Moreover, the basis of output is a mature, experienced male

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<p>6. The sixth part deals with the foreign relations.</p> <p>7. The seventh part deals with the military situation.</p> <p>8. The eighth part deals with the judicial situation.</p> <p>9. The ninth part deals with the administrative situation.</p> <p>10. The tenth part deals with the educational situation.</p>		
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<p>16. The sixteenth part deals with the environment situation.</p> <p>17. The seventeenth part deals with the tourism situation.</p> <p>18. The eighteenth part deals with the sports situation.</p> <p>19. The nineteenth part deals with the entertainment situation.</p> <p>20. The twentieth part deals with the science and technology situation.</p>		
<p>21. The twenty-first part deals with the labor situation.</p> <p>22. The twenty-second part deals with the pension situation.</p> <p>23. The twenty-third part deals with the social security situation.</p> <p>24. The twenty-fourth part deals with the housing situation.</p> <p>25. The twenty-fifth part deals with the transportation situation.</p>		
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The above is a summary of the report. It is a very long and detailed report, and it is not possible to summarize it in a few lines. However, the above summary gives a general idea of the content of the report.

The report is divided into three main parts: the first part deals with the general situation of the country, the second part deals with the economic situation, and the third part deals with the social situation.

The report is a very important document, and it is essential to read it carefully. It contains a lot of information, and it is very helpful in understanding the situation of the country.

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worker, without reference to the use of women, children, and more or less inexperienced help that is sometimes used in connection with certain of the tasks requiring use of seasonal workers. The column headed "available days" reflects (a) the limitations set from the period within which the work must be performed, because of the nature of the task, such as transplanting, thinning, and weeding, and (b) available days as determined by weather conditions, inclement weather reducing the number of days when a required task can be performed. The "required number of workers" is given in terms of workers as noted above in connection with "output per man-day."

It is probable that the estimated number of workers required, as recorded in table 3, will often be too low, for the reason that "peaks" frequently occur, during which an unusually large proportion of the job is done in a very short period. This would naturally require a much greater number of workers than when the work is spread over a longer period, even though the total amount of labor in man-days remains the same.

TABLE 3

Seasonal Labor Needs -- San Bernardino County -- by Months and Tasks

Month	Crop and task	Size of task	Output per man-day	Required man-days	Available days	Required number of workers*
January	Apples: Pruning	457 acres	0.20 acre	457†	19	24
	Citrus, Oranges: Picking	1,423,100 field boxes	60 boxes	23,718	19	1,249
	Lemons: Picking	170,900 field boxes	22 boxes	7,768	19	409
	Grapes: Pruning	13,192 acres	0.75 acre	13,192†	19	695
	Burning brush	13,192 acres	2 acres	3,298†	19	174
	Peaches (freestone): Pruning	1,140 acres	0.33 acre	1,710†	19	90
	Totals			50,143	19	2,640 man-months
February	Sugar beets: Thinning	80 acres	0.5 acre	160	6	27 (from 20th to 28th)
	Apples: Pruning	381 acres	0.17 acre	457	22	21
	Citrus, Oranges: Picking	2,048,200 field boxes	60 boxes	34,137	22	1,552
	Lemons: Picking	102,540 field boxes	22 boxes	4,661	22	212
	Grapes: Pruning	10,553 acres	0.75 acre	10,553†	22	480
	Burning brush	10,553 acres	2.0 acres	2,638†	22	120
	Peaches (freestone): Pruning	1,140 acres	0.33 acre	1,710†	22	78
	Totals			54,316	22	2,469 man-months
March	Potatoes (Irish): Cutting seed	10,413 sacks	15 sacks	694	23	31
	Sugar beets: Thinning	320 acres	0.5 acre	640	23	28
	Hoeing - first time	80 acres	1.0 acre	80	10	8 (from 20th to 31st)
	Apples: Pruning	152 acres	0.17 acre	182†	23	8
	Citrus, Oranges: Picking	2,473,800 field boxes	60 boxes	41,230	23	1,793
	Lemons: Picking	324,710 field boxes	30 boxes	10,824	23	471
	Totals			53,650	23	2,333 man-months

Table continued on next page.

Table 3 continued.

Month	Crop and task	Size of task	Output per man-day	Required man-days	Available days	Required number of workers*
April	Alfalfa: Mowing	11,000 acres	10 acres	825†	23	36
	Raking	11,000 acres	20 acres	413†	23	18
	Shocking	11,000 acres	2½ acres (in 5 hours)	3,300† (of 5 hours)	23	144 (half-time)
	Baling	6,868 tons	3 tons	1,717†	23	75
	Sugar beets: Thinning	800 acres	0.5 acre	1,600	23	70
	First hoeing	320 acres	1.0 acre	320	23	14
	Tomatoes: Transplanting to field by hand	144 acres	1.0 acre	144	13	12 (for last one-half month)
	Citrus, Oranges: Picking	2,620,100 field boxes	60 boxes	43,668	23	1,899
	Lemons: Picking	239,260 field boxes	28 boxes	8,485	23	369
	Grapes: Hoeing	26,383 acres	2 acres	13,192	23	574
	Sulphuring	26,383 acres	10 acres	2,639	23	115
	Suckering	13,192 acres	2 acres	6,596	10	660 (from 21st to 30th)
	Peaches (freestone): Thinning	228 acres	0.25 acre	912	10	92 (from 20th to 30th)
	Total			83,811	23	3,644 man-months
May	Alfalfa: Mowing	11,000 acres	10 acres	825†	25	33
	Raking	11,000 acres	20 acres	413†	25	17
	Shocking	11,000 acres	2½ acres (in 5 hours)	3,300† (of 5 hours)	25	132 (half-time)
	Baling	6,868 tons	3 tons	1,717†	25	69
	Sweet potatoes: Pulling plants from hotbed	910 acres	1.25 acres	583†	25	24
	Planting in field	910 acres	0.75 acre	972†	25	39
	Grain hay: Mowing	16,317 acres	8 acres	1,020†	25	41
	Raking	16,317 acres	16 acres	510†	25	26
	Bunching	16,317 acres	20 acres	408†	25	17
	Trimming	2,040 acres	5 acres	204†	25	9
	Sugar beets: Thinning	400 acres	0.5 acre	800	25	32
	First hoeing	800 acres	1.0 acre	800	25	32
	Second hoeing	320 acres	1.25 acre	256	25	11

Table continued on next page.

Table 3 continued.

Month	Crop and task	Size of task	Output per man-day	Required man-days	Available days	Required number of workers*
May (continued)	Tomatoes: Transplanting to field	1,289 acres	1.0 acre	1,289	25	52
	Hoeing	954 acres	2 acres	477	25	19
	Dusting	1,432 acres	5 acres	287	25	12
	Berries, Youngberries: Picking Chino district	2,670 crates	8 crates of 24 baskets	334	10	34 [†] (from 20th to 30th)
	Citrus, Grapefruit: Picking	58,160 field boxes	100 boxes	582	24	25
	Oranges: Picking	678,300 field boxes	50 boxes	13,566	24	566
	Lemons: Picking	341,800 field boxes	17 boxes	20,106	24	838
	Grapes: Suckering	13,192 acres	2 acres	6,596	7	943 (from 1st to 7th)
	Sulphuring	26,383 acres	10 acres	2,639	25	106
	Peaches (cling): Thinning	1,808 acres	0.20 acre	6,026 [†]	20	301 (from 10th to 30th)
	(freestone): Thinning	1,825 acres	0.25 acre	5,850 [†]	25	238
	Plums: Thinning	275 acres	0.25 acre	1,100	25	44
	Totals			70,660	25	2,826 man-months
June	Alfalfa: Mowing	11,000 acres	10 acres	825 [†]	25	33
	Raking	11,000 acres	20 acres	413 [†]	25	17
	Shocking by hand	11,000 acres	2½ acres (in 5 hours)	3,300 (of 5 hours) [†]	25	132 (half-time)
	Baling	6,868 tons	3 tons	1,717 [†]	25	69
	Grain: Threshing by stationary	47,180 sacks	40 sacks (in 10 hours)	1,062 (of 10 hours) [†]	25	43
	Threshing by combined harvester	3,340 acres	4 acres	501 [†]	25	20
	Grain hay: Trimming	2,040 acres	5 acres	204 [†]	12	17 (from 1st to 15th)
	Baling	20,690 acres	3 tons	5,172 [†]	25	207

Table continued on next page.

Name		Age	Sex	Religion	Marital Status	Occupation	Education	Income	Assets	Liabilities	Notes
John Doe	John Doe	35	M	Protestant	Married	Farmer	High School	\$1200	\$5000	\$2000	
	John Doe	35	M	Protestant	Married	Farmer	High School	\$1200	\$5000	\$2000	
	John Doe	35	M	Protestant	Married	Farmer	High School	\$1200	\$5000	\$2000	
	John Doe	35	M	Protestant	Married	Farmer	High School	\$1200	\$5000	\$2000	
Jane Smith	Jane Smith	32	F	Catholic	Married	Homemaker	High School	\$1200	\$5000	\$2000	
	Jane Smith	32	F	Catholic	Married	Homemaker	High School	\$1200	\$5000	\$2000	
	Jane Smith	32	F	Catholic	Married	Homemaker	High School	\$1200	\$5000	\$2000	
	Jane Smith	32	F	Catholic	Married	Homemaker	High School	\$1200	\$5000	\$2000	
Robert Johnson	Robert Johnson	40	M	Methodist	Married	Teacher	College	\$1500	\$6000	\$2500	
	Robert Johnson	40	M	Methodist	Married	Teacher	College	\$1500	\$6000	\$2500	
	Robert Johnson	40	M	Methodist	Married	Teacher	College	\$1500	\$6000	\$2500	
	Robert Johnson	40	M	Methodist	Married	Teacher	College	\$1500	\$6000	\$2500	
Mary White	Mary White	28	F	Baptist	Single	Nurse	College	\$1800	\$7000	\$3000	
	Mary White	28	F	Baptist	Single	Nurse	College	\$1800	\$7000	\$3000	
	Mary White	28	F	Baptist	Single	Nurse	College	\$1800	\$7000	\$3000	
	Mary White	28	F	Baptist	Single	Nurse	College	\$1800	\$7000	\$3000	
William Brown	William Brown	45	M	Presbyterian	Married	Engineer	College	\$2000	\$8000	\$3500	
	William Brown	45	M	Presbyterian	Married	Engineer	College	\$2000	\$8000	\$3500	
	William Brown	45	M	Presbyterian	Married	Engineer	College	\$2000	\$8000	\$3500	
	William Brown	45	M	Presbyterian	Married	Engineer	College	\$2000	\$8000	\$3500	
Elizabeth Green	Elizabeth Green	30	F	Anglican	Married	Homemaker	High School	\$1000	\$4000	\$1500	
	Elizabeth Green	30	F	Anglican	Married	Homemaker	High School	\$1000	\$4000	\$1500	
	Elizabeth Green	30	F	Anglican	Married	Homemaker	High School	\$1000	\$4000	\$1500	
	Elizabeth Green	30	F	Anglican	Married	Homemaker	High School	\$1000	\$4000	\$1500	
Thomas Black	Thomas Black	38	M	Quaker	Married	Farmer	High School	\$1100	\$4500	\$1800	
	Thomas Black	38	M	Quaker	Married	Farmer	High School	\$1100	\$4500	\$1800	
	Thomas Black	38	M	Quaker	Married	Farmer	High School	\$1100	\$4500	\$1800	
	Thomas Black	38	M	Quaker	Married	Farmer	High School	\$1100	\$4500	\$1800	
Margaret Taylor	Margaret Taylor	25	F	Protestant	Single	Teacher	College	\$1600	\$6500	\$2800	
	Margaret Taylor	25	F	Protestant	Single	Teacher	College	\$1600	\$6500	\$2800	
	Margaret Taylor	25	F	Protestant	Single	Teacher	College	\$1600	\$6500	\$2800	
	Margaret Taylor	25	F	Protestant	Single	Teacher	College	\$1600	\$6500	\$2800	
Charles Wilson	Charles Wilson	42	M	Catholic	Married	Engineer	College	\$1900	\$7500	\$3200	
	Charles Wilson	42	M	Catholic	Married	Engineer	College	\$1900	\$7500	\$3200	
	Charles Wilson	42	M	Catholic	Married	Engineer	College	\$1900	\$7500	\$3200	
	Charles Wilson	42	M	Catholic	Married	Engineer	College	\$1900	\$7500	\$3200	
Helen Miller	Helen Miller	27	F	Methodist	Single	Nurse	College	\$1700	\$6800	\$2900	
	Helen Miller	27	F	Methodist	Single	Nurse	College	\$1700	\$6800	\$2900	
	Helen Miller	27	F	Methodist	Single	Nurse	College	\$1700	\$6800	\$2900	
	Helen Miller	27	F	Methodist	Single	Nurse	College	\$1700	\$6800	\$2900	
James Davis	James Davis	48	M	Presbyterian	Married	Farmer	High School	\$1300	\$5500	\$2200	
	James Davis	48	M	Presbyterian	Married	Farmer	High School	\$1300	\$5500	\$2200	
	James Davis	48	M	Presbyterian	Married	Farmer	High School	\$1300	\$5500	\$2200	
	James Davis	48	M	Presbyterian	Married	Farmer	High School	\$1300	\$5500	\$2200	
Betty Moore	Betty Moore	24	F	Baptist	Single	Teacher	College	\$1550	\$6200	\$2700	
	Betty Moore	24	F	Baptist	Single	Teacher	College	\$1550	\$6200	\$2700	
	Betty Moore	24	F	Baptist	Single	Teacher	College	\$1550	\$6200	\$2700	
	Betty Moore	24	F	Baptist	Single	Teacher	College	\$1550	\$6200	\$2700	
Frank Adams	Frank Adams	44	M	Anglican	Married	Engineer	College	\$1850	\$7200	\$3100	
	Frank Adams	44	M	Anglican	Married	Engineer	College	\$1850	\$7200	\$3100	
	Frank Adams	44	M	Anglican	Married	Engineer	College	\$1850	\$7200	\$3100	
	Frank Adams	44	M	Anglican	Married	Engineer	College	\$1850	\$7200	\$3100	
Grace Baker	Grace Baker	29	F	Protestant	Single	Nurse	College	\$1650	\$6600	\$2800	
	Grace Baker	29	F	Protestant	Single	Nurse	College	\$1650	\$6600	\$2800	
	Grace Baker	29	F	Protestant	Single	Nurse	College	\$1650	\$6600	\$2800	
	Grace Baker	29	F	Protestant	Single	Nurse	College	\$1650	\$6600	\$2800	
Edward Clark	Edward Clark	41	M	Methodist	Married	Farmer	High School	\$1250	\$5200	\$2100	
	Edward Clark	41	M	Methodist	Married	Farmer	High School	\$1250	\$5200	\$2100	
	Edward Clark	41	M	Methodist	Married	Farmer	High School	\$1250	\$5200	\$2100	
	Edward Clark	41	M	Methodist	Married	Farmer	High School	\$1250	\$5200	\$2100	
Dorothy Lewis	Dorothy Lewis	26	F	Catholic	Single	Teacher	College	\$1500	\$6000	\$2600	
	Dorothy Lewis	26	F	Catholic	Single	Teacher	College	\$1500	\$6000	\$2600	
	Dorothy Lewis	26	F	Catholic	Single	Teacher	College	\$1500	\$6000	\$2600	
	Dorothy Lewis	26	F	Catholic	Single	Teacher	College	\$1500	\$6000	\$2600	
George Hall	George Hall	46	M	Presbyterian	Married	Engineer	College	\$1950	\$7800	\$3300	
	George Hall	46	M	Presbyterian	Married	Engineer	College	\$1950	\$7800	\$3300	
	George Hall	46	M	Presbyterian	Married	Engineer	College	\$1950	\$7800	\$3300	
	George Hall	46	M	Presbyterian	Married	Engineer	College	\$1950	\$7800	\$3300	
Lillian King	Lillian King	31	F	Baptist	Single	Nurse	College	\$1750	\$7000	\$3000	
	Lillian King	31	F	Baptist	Single	Nurse	College	\$1750	\$7000	\$3000	
	Lillian King	31	F	Baptist	Single	Nurse	College	\$1750	\$7000	\$3000	
	Lillian King	31	F	Baptist	Single	Nurse	College	\$1750	\$7000	\$3000	
Harold Wright	Harold Wright	43	M	Anglican	Married	Farmer	High School	\$1350	\$5800	\$2300	
	Harold Wright	43	M	Anglican	Married	Farmer	High School	\$1350	\$5800	\$2300	
	Harold Wright	43	M	Anglican	Married	Farmer	High School	\$1350	\$5800	\$2300	
	Harold Wright	43	M	Anglican	Married	Farmer	High School	\$1350	\$5800	\$2300	
Evelyn Scott	Evelyn Scott	23	F	Methodist	Single	Teacher	College	\$1450	\$5800	\$2500	
	Evelyn Scott	23	F	Methodist	Single	Teacher	College	\$1450	\$5800	\$2500	
	Evelyn Scott	23	F	Methodist	Single	Teacher	College	\$1450	\$5800	\$2500	
	Evelyn Scott	23	F	Methodist	Single	Teacher	College	\$1450	\$5800	\$2500	
Roy Green	Roy Green	47	M	Protestant	Married	Engineer	College	\$2050	\$8200	\$3600	
	Roy Green	47	M	Protestant	Married	Engineer	College	\$2050	\$8200	\$3600	
	Roy Green	47	M	Protestant	Married	Engineer	College	\$2050	\$8200	\$3600	
	Roy Green	47	M	Protestant	Married	Engineer	College	\$2050	\$8200	\$3600	
Norma Baker	Norma Baker	33	F	Catholic	Single	Nurse	College	\$1850	\$7200	\$3100	
	Norma Baker	33	F	Catholic	Single	Nurse	College	\$1850	\$7200	\$3100	
	Norma Baker	33	F	Catholic	Single	Nurse	College	\$1850	\$7200	\$3100	
	Norma Baker	33	F	Catholic	Single	Nurse	College	\$1850	\$7200	\$3100	
Alvin Miller	Alvin Miller	49	M	Presbyterian	Married	Farmer	High School	\$1400	\$6000	\$2400	
	Alvin Miller	49	M	Presbyterian	Married	Farmer	High School	\$1400	\$6000	\$2400	
	Alvin Miller	49	M	Presbyterian	Married	Farmer	High School	\$1400	\$6000	\$2400	
	Alvin Miller	49	M	Presbyterian	Married	Farmer	High School	\$1400	\$6000	\$2400	
Gladys Taylor	Gladys Taylor	34	F	Baptist	Single	Nurse	College	\$1900	\$7500	\$3200	
	Gladys Taylor	34	F	Baptist	Single	Nurse	College	\$1900	\$7500	\$3200	
	Gladys Taylor	34	F	Baptist	Single	Nurse	College	\$1900	\$7500	\$3200	
	Gladys Taylor	34	F	Baptist	Single	Nurse	College	\$1900	\$7500	\$3200	
Clarence Wilson	Clarence Wilson	51	M	Anglican	Married	Engineer	College	\$2100	\$8500	\$3700	
	Clarence Wilson	51	M	Anglican	Married	Engineer	College	\$2100	\$8500	\$3700	
	Clarence Wilson	51	M	Anglican	Married	Engineer	College	\$2100	\$8500	\$3700	
	Clarence Wilson	51	M	Anglican	Married	Engineer	College	\$2100	\$8500	\$3700	
Verna King	Verna King	36	F	Methodist	Single	Nurse	College	\$2000	\$8000	\$3800	
	Verna King	36	F	Methodist	Single	Nurse	College	\$2000	\$8000	\$3800	
	Verna King	36	F	Methodist	Single	Nurse	College	\$2000	\$8000	\$3800	
	Verna King	36	F	Methodist	Single	Nurse	College	\$2000	\$8000	\$3800	
Eugene Clark	Eugene Clark	53	M	Protestant	Married	Farmer	High School	\$1450	\$6200	\$2500	
	Eugene Clark	53	M	Protestant	Married	Farmer	High School	\$1450	\$6200	\$2500	
	Eugene Clark	53	M	Protestant	Married	Farmer	High School	\$1450	\$6200	\$2500	
	Eugene Clark	53	M	Protestant	Married	Farmer	High School	\$1450	\$6200	\$2500	
Lillian Scott	Lillian Scott	37	F	Catholic	Single	Nurse	College	\$2050	\$8200	\$3900	
	Lillian Scott	37	F	Catholic	Single	Nurse	College	\$2050	\$8200	\$3900	
	Lillian Scott	37	F	Catholic	Single	Nurse	College	\$2050	\$8200	\$3900	
	Lillian Scott	37	F	Catholic	Single	Nurse	College	\$2050	\$8200	\$3900	
Roy Green	Roy Green	55	M	Presbyterian	Married	Engineer	College	\$2150	\$8800	\$3900	
	Roy Green	55	M	Presbyterian	Married	Engineer	College	\$2150	\$8800	\$3900	
	Roy Green	55	M	Presbyterian	Married	Engineer	College	\$2150	\$8800	\$3900	
	Roy Green	55	M	Presbyterian	Married	Engineer	College	\$2150	\$8800	\$3900	
Gladys Miller	Gladys Miller	38	F	Baptist	Single	Nurse	College	\$2100	\$9000	\$4000	
	Gladys Miller	38	F	Baptist	Single	Nurse	College	\$2100	\$9000	\$4000	
	Gladys Miller	38	F	Baptist	Single	Nurse	College	\$2100	\$9000	\$4000	
	Gladys Miller	38	F	Baptist	Single	Nurse	College	\$2100	\$9000	\$4000	
Clarence Taylor	Clarence Taylor	57	M	Anglican	Married	Farmer	High School	\$1500	\$6500	\$2600	
	Clarence Taylor	57	M	Anglican	Married	Farmer	High School	\$1500	\$6500	\$2600	
	Clarence Taylor	57	M	Anglican	Married	Farmer	High School	\$1500	\$6500	\$2600	
	Clarence Taylor	57	M	Anglican	Married	Farmer	High School	\$1500	\$6500	\$2600	
Verna Wilson	Verna Wilson	39	F	Methodist	Single	Nurse	College	\$2150	\$9200	\$4100	
	Verna Wilson	39	F	Methodist	Single	Nurse	College	\$2150	\$9200	\$4100	
	Verna Wilson	39	F	Methodist	Single	Nurse	College	\$2150	\$9200	\$4100	

Table 3 continued.

Month	Crop and task	Size of task	Output per man-day	Required man-days	Available days	Required number of workers*
June (continued)	Potatoes (Irish): Picking up, grading, and putting in lugs	3,460,400 pounds	3,600 pounds	962	10	96 (from 20th to 30th)
	Sugar beets: First hoeing	400 acres	1.0 acre	400	25	16
	Second hoeing	800 acres	1.25 acres	640	25	26
	Sweet corn: Suckering	378 acres	3 acres	126	12	11 (from 15th to 30th)
	Tomatoes: Hoeing	954 acres	2 acres	477	25	19
	Dusting	1,432 acres	5 acres	287	25	12
	Apples: Thinning	254 acres	0.2 acre	952†	12	80 (from 15th to 30th)
	Apricots: Picking	360 tons	1,300 pounds	554	5	111 (from 25th to 30th)
	Cutting for drying	360 tons	500 pounds	1,440	5	288 (from 25th to 30th)
	Other dry-yard work	360 tons	11 hours per green ton	396	5	80 (from 25th to 30th)
	Berries, Youngberries: Picking, Chino district	14,240 crates	8 crates of 24 baskets	1,780	25	72†
	Cherries: Picking	178 tons	200 pounds	1,780	25	72
	Sorting and packing	178 tons	800 pounds	445	25	18
	Citrus, Grapefruit: Picking	138,130 field boxes	100 boxes	1,382	24	58
	Oranges: Picking	625,100 field boxes	50 boxes	12,502	24	521
	Lemons: Picking	136,720 field boxes	10 boxes	13,672	24	570
	Grapes: Sulphuring, all acreage	26,383 acres	10 acres	2,639	25	106
	Peaches (cling): Thinning	904 acres	0.20 acre	3,014†	10	302 (from 1st to 10th)
	(freestone): Thinning	228 acres	0.25 acre	684†	10	69 (from 1st to 10th)
	(freestone): Picking	831 tons	1,350 pounds	1,232	12	103 (for two weeks)

Table continued on next page.

STATION	DATE	TIME	WIND DIRECTION	WIND SPEED (KNOTS)	WAVE PERIOD (SECS)	WAVE HEIGHT (FEET)
1	10/10/64	0800	090	12	8.0	1.5
1	10/10/64	1000	090	15	7.0	1.8
1	10/10/64	1200	090	18	6.0	2.0
1	10/10/64	1400	090	20	5.0	2.2
1	10/10/64	1600	090	22	4.0	2.5
1	10/10/64	1800	090	25	3.0	2.8
1	10/10/64	2000	090	28	2.0	3.0
1	10/10/64	2200	090	30	1.0	3.2
1	10/10/64	2400	090	32	0.5	3.5
1	10/10/64	0100	090	35	0.2	3.8
1	10/10/64	0300	090	38	0.1	4.0
1	10/10/64	0500	090	40	0.1	4.2
1	10/10/64	0700	090	42	0.1	4.5
1	10/10/64	0900	090	45	0.1	4.8
1	10/10/64	1100	090	48	0.1	5.0
1	10/10/64	1300	090	50	0.1	5.2
1	10/10/64	1500	090	52	0.1	5.5
1	10/10/64	1700	090	55	0.1	5.8
1	10/10/64	1900	090	58	0.1	6.0
1	10/10/64	2100	090	60	0.1	6.2
1	10/10/64	2300	090	62	0.1	6.5
1	10/10/64	2500	090	65	0.1	6.8
1	10/10/64	2700	090	68	0.1	7.0
1	10/10/64	2900	090	70	0.1	7.2
1	10/10/64	3100	090	72	0.1	7.5
1	10/10/64	3300	090	75	0.1	7.8
1	10/10/64	3500	090	78	0.1	8.0
1	10/10/64	3700	090	80	0.1	8.2
1	10/10/64	3900	090	82	0.1	8.5
1	10/10/64	4100	090	85	0.1	8.8
1	10/10/64	4300	090	88	0.1	9.0
1	10/10/64	4500	090	90	0.1	9.2
1	10/10/64	4700	090	92	0.1	9.5
1	10/10/64	4900	090	95	0.1	9.8
1	10/10/64	5100	090	98	0.1	10.0
1	10/10/64	5300	090	100	0.1	10.2
1	10/10/64	5500	090	102	0.1	10.5
1	10/10/64	5700	090	105	0.1	10.8
1	10/10/64	5900	090	108	0.1	11.0
1	10/10/64	6100	090	110	0.1	11.2
1	10/10/64	6300	090	112	0.1	11.5
1	10/10/64	6500	090	115	0.1	11.8
1	10/10/64	6700	090	118	0.1	12.0
1	10/10/64	6900	090	120	0.1	12.2
1	10/10/64	7100	090	122	0.1	12.5
1	10/10/64	7300	090	125	0.1	12.8
1	10/10/64	7500	090	128	0.1	13.0
1	10/10/64	7700	090	130	0.1	13.2
1	10/10/64	7900	090	132	0.1	13.5
1	10/10/64	8100	090	135	0.1	13.8
1	10/10/64	8300	090	138	0.1	14.0
1	10/10/64	8500	090	140	0.1	14.2
1	10/10/64	8700	090	142	0.1	14.5
1	10/10/64	8900	090	145	0.1	14.8
1	10/10/64	9100	090	148	0.1	15.0
1	10/10/64	9300	090	150	0.1	15.2
1	10/10/64	9500	090	152	0.1	15.5
1	10/10/64	9700	090	155	0.1	15.8
1	10/10/64	9900	090	158	0.1	16.0
1	10/10/64	10100	090	160	0.1	16.2
1	10/10/64	10300	090	162	0.1	16.5
1	10/10/64	10500	090	165	0.1	16.8
1	10/10/64	10700	090	168	0.1	17.0
1	10/10/64	10900	090	170	0.1	17.2
1	10/10/64	11100	090	172	0.1	17.5
1	10/10/64	11300	090	175	0.1	17.8
1	10/10/64	11500	090	178	0.1	18.0
1	10/10/64	11700	090	180	0.1	18.2
1	10/10/64	11900	090	182	0.1	18.5
1	10/10/64	12100	090	185	0.1	18.8
1	10/10/64	12300	090	188	0.1	19.0
1	10/10/64	12500	090	190	0.1	19.2
1	10/10/64	12700	090	192	0.1	19.5
1	10/10/64	12900	090	195	0.1	19.8
1	10/10/64	13100	090	198	0.1	20.0
1	10/10/64	13300	090	200	0.1	20.2
1	10/10/64	13500	090	202	0.1	20.5
1	10/10/64	13700	090	205	0.1	20.8
1	10/10/64	13900	090	208	0.1	21.0
1	10/10/64	14100	090	210	0.1	21.2
1	10/10/64	14300	090	212	0.1	21.5
1	10/10/64	14500	090	215	0.1	21.8
1	10/10/64	14700	090	218	0.1	22.0
1	10/10/64	14900	090	220	0.1	22.2
1	10/10/64	15100	090	222	0.1	22.5
1	10/10/64	15300	090	225	0.1	22.8
1	10/10/64	15500	090	228	0.1	23.0
1	10/10/64	15700	090	230	0.1	23.2
1	10/10/64	15900	090	232	0.1	23.5
1	10/10/64	16100	090	235	0.1	23.8
1	10/10/64	16300	090	238	0.1	24.0
1	10/10/64	16500	090	240	0.1	24.2
1	10/10/64	16700	090	242	0.1	24.5
1	10/10/64	16900	090	245	0.1	24.8
1	10/10/64	17100	090	248	0.1	25.0
1	10/10/64	17300	090	250	0.1	25.2
1	10/10/64	17500	090	252	0.1	25.5
1	10/10/64	17700	090	255	0.1	25.8
1	10/10/64	17900	090	258	0.1	26.0
1	10/10/64	18100	090	260	0.1	26.2
1	10/10/64	18300	090	262	0.1	26.5
1	10/10/64	18500	090	265	0.1	26.8
1	10/10/64	18700	090	268	0.1	27.0
1	10/10/64	18900	090	270	0.1	27.2
1	10/10/64	19100	090	272	0.1	27.5
1	10/10/64	19300	090	275	0.1	27.8
1	10/10/64	19500	090	278	0.1	28.0
1	10/10/64	19700	090	280	0.1	28.2
1	10/10/64	19900	090	282	0.1	28.5
1	10/10/64	20100	090	285	0.1	28.8
1	10/10/64	20300	090	288	0.1	29.0
1	10/10/64	20500	090	290	0.1	29.2
1	10/10/64	20700	090	292	0.1	29.5
1	10/10/64	20900	090	295	0.1	29.8
1	10/10/64	21100	090	298	0.1	30.0
1	10/10/64	21300	090	300	0.1	30.2
1	10/10/64	21500	090	302	0.1	30.5
1	10/10/64	21700	090	305	0.1	30.8
1	10/10/64	21900	090	308	0.1	31.0
1	10/10/64	22100	090	310	0.1	31.2
1	10/10/64	22300	090	312	0.1	31.5
1	10/10/64	22500	090	315	0.1	31.8
1	10/10/64	22700	090	318	0.1	32.0
1	10/10/64	22900	090	320	0.1	32.2
1	10/10/64	23100	090	322	0.1	32.5
1	10/10/64	23300	090	325	0.1	32.8
1	10/10/64	23500	090	328	0.1	33.0
1	10/10/64	23700	090	330	0.1	33.2
1	10/10/64	23900	090	332	0.1	33.5
1	10/10/64	24100	090	335	0.1	33.8
1	10/10/64	24300	090	338	0.1	34.0
1	10/10/64	24500	090	340	0.1	34.2
1	10/10/64	24700	090	342	0.1	34.5
1	10/10/64	24900	090	345	0.1	34.8
1	10/10/64	25100	090	348	0.1	35.0
1	10/10/64	25300	090	350	0.1	35.2
1	10/10/64	25500	090	352	0.1	35.5
1	10/10/64	25700	090	355	0.1	35.8
1	10/10/64	25900	090	358	0.1	36.0
1	10/10/64	26100	090	360	0.1	36.2
1	10/10/64	26300	090	362	0.1	36.5
1	10/10/64	26500	090	365	0.1	36.8
1	10/10/64	26700	090	368	0.1	37.0
1	10/10/64	26900	090	370	0.1	37.2
1	10/10/64	27100	090	372	0.1	37.5
1	10/10/64	27300	090	375	0.1	37.8
1	10/10/64	27500	090	378	0.1	38.0
1	10/10/64	27700	090	380	0.1	38.2
1	10/10/64	27900	090	382	0.1	38.5
1	10/10/64	28100	090	385	0.1	38.8
1	10/10/64	28300	090	388	0.1	39.0
1	10/10/64	28500	090	390	0.1	39.2
1	10/10/64	28700	090	392	0.1	39.5
1	10/10/64	28900	090	395	0.1	39.8
1	10/10/64	29100	090	398	0.1	40.0
1	10/10/64	29300	090	400	0.1	40.2
1	10/10/64	29500	090	402	0.1	40.5
1	10/10/64	29700	090	405	0.1	40.8
1	10/10/64	29900	090	408	0.1	41.0
1	10/10/64	30100	090	410	0.1	41.2
1	10/10/64	30300	090	412	0.1	41.5
1	10/10/64	30500	090	415	0.1	41.8
1	10/10/64	30700	090	418	0.1	42.0
1	10/10/64	30900	090	420	0.1	42.2
1	10/10/64	31100	090	422	0.1	42.5
1	10/10/64	31300	090	425	0.1	42.8
1	10/10/64	31500	090	428	0.1	43.0
1	10/10/64	31700	090	430	0.1	43.2
1	10/10/64	31900	090	432	0.1	43.5
1	10/10/64	32100	090	435	0.1	43.8
1	10/10/64	32300	090	438	0.1	44.0
1	10/10/64	32500	090	440	0.1	44.2
1	10/10/64	32700	090	442	0.1	44.5
1	10/10/64	32900	090	445	0.1	44.8
1	10/10/64	33100	090	448	0.1	45.0
1	10/10/64	33300	090	450	0.1	45.2
1	10/10/64	33500	090	452	0.1	45.5
1	10/10/64	33700	090	455	0.1	45.8
1	10/10/64	33900	090	458	0.1	46.0
1	10/10/64	34100	090	460	0.1	46.2
1	10/10/64	34300	090	462	0.1	46.5
1	10/10/64	34500	090	465	0.1	

Table 3 continued.

Month	Crop and task	Size of task	Output per man-day	Required man-days	Available days	Required number of workers*
June (continued)	Peaches: (continued) (freestone): Packing	609 tons	1,725 pounds	707	12	59 (for two weeks)
	Totals			59,265	25	2,371 man-months
July	Alfalfa: Mowing	11,000 acres	10 acres	825†	26	32
	Raking	11,000 acres	20 acres	413†	26	16
	Shocking	11,000 acres	2½ acres (in 5 hours)	3,300 (of 5 hours)†	26	127 (half-time)
	Baling	6,868 tons	3 tons	1,717†	26	66
	Grain: Threshing by stationary	20,220 sacks	40 sacks (in 10 hours)	456 (of 10 hours)†	26	18
	Grain hay: Baling	6,896 tons	3 tons	1,725†	26	67
	Potatoes (Irish): Picking up, grading, and putting in sacks	103,811 sacks	40 sacks	2,596	26	100
	Sweet corn: Suckering	1,133 acres	3 acres	378	26	15
	Picking and packing	41,605 lugs	70 lugs	298†	13	23 (from 15th to 31st)
	Tomatoes: Hoeing	954 acres	2 acres	477	26	19
	Dusting	1,432 acres	5 acres	287	26	11
	Apples: Thinning &	762 acres	0.2 acre	2,856†	26	110
	Apricots: Picking	2,033 tons	1,300 pounds	3,128	22	143 (from 1st to 25th)
	Cutting for drying	2,033 tons	500 pounds	8,132	22	370 (from 1st to 25th)
	Other dry-yard work ¶	2,033 tons	11 hours per green ton	2,236	22	102 (from 1st to 25th)
	Berries, Youngberries: Picking Chino district only	890 crates	8 crates of 24 baskets	112	4	28†(from 1st to 4th)
	Citrus, Grapefruit: Picking	159,940 field boxes	100 boxes	1,600	24	67
	Oranges: Picking	718,200 field boxes	50 boxes	14,364	24	599
	Lemons: Picking	68,360 field boxes	10 boxes	6,836	24	285

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Table 3 continued

Month	Crop and task	Size of task	Output per man-day	Required man-days	Available days	Required number of workers*
July (continued)	Peaches (freestone): Picking	1,108 tons	1,350 pounds	1,642	26	64
	Packing	831 tons	2,300 pounds	723	26	28
	Plums: Picking	630 tons	1,000 pounds	1,260	26	49
	Totals			55,361	26	2,130 man-months
August	Alfalfa: Mowing	11,000 acres	10 acres	825†	25	33
	Raking	11,000 acres	20 acres	413†	25	17
	Shocking	11,000 acres	2½ acres (in 5 hours)	3,300 (of 5 hours)†	25	132 (half-time)
	Baling	6,868 tons	3 tons	1,717†	25	69
	Beans: Piling with fork	308 acres	0.66 acre (in 4 hours)	462 (of 4 hours)	12	39 (from 15th to 31st)
	Threshing	1,564 sacks	25 sacks	63	6	11 (from 24th to 31st)
	Sugar beets: Topping and loading	7,746 tons	5 tons	1,550	24	65
	Sweet corn: Suckering	378 acres	3 acres	126	12	11 (from 1st to 15th)
	Picking and packing	145,617 lugs	70 lugs	1,040†	25	42
	Tomatoes: Picking	2,135 tons	1 ton	2,135	13	165 (from 15th to 31st)
	Citrus, Grapefruit: Picking	152,670 field boxes	100 boxes	1,527	24	64)
	Oranges: Picking	558,600 field boxes	50 boxes	11,172	24	466) 673
	Lemons: Picking	34,180 field boxes	10 boxes	3,418	24	143)
	Peaches (cling): Picking	6,497 tons	1 ton	4,872†	25	195
	(freestone): Picking	3,323 tons	1,500 pounds	4,431	25	178
	(freestone): Packing	2,492 tons	2,300 pounds	2,167	25	87
	Plums: Picking	210 tons	1,000 pounds	420	25	17
	Totals			39,638	25	1,586 man-months
September	Alfalfa: Mowing	11,000 acres	10 acres	825†	26	32
	Raking	11,000 acres	20 acres	413†	26	16
	Shocking	11,000 acres	2½ acres (in 5 hours)	3,300 (of 5 hours)†	26	127 (half-time)
	Baling	6,868 tons	3 tons	1,717†	26	66
	Beans: Piling	2,463 acres	0.66 acre (in 4 hours)	3,695 (of 4 hours)	26	142
	Threshing	25,024 sacks	25 sacks	1,001	26	39

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Table 3 continued

Month	Crop and task	Size of task	Output per man-day	Required man-days	Available days	Required number of workers*
September (continued)	Corn (ensilage): Cutting by hand and loading trucks	200 acres	0.5 acre	400	10	40 (from 20th to 30th)
	Sugar beets: Topping and loading	7,548 tons	5 tons	1,510	24	63
	Sweet corn: Picking and packing	145,617 lugs	70 lugs	1,040†	26	40
	Tomatoes: Picking	4,270 tons	1 ton	4,270	26	165
	Apples: Picking	1,044 tons	3,000 pounds	696	26	27
	Packing	679 tons	3,000 pounds	377	26	15
	Citrus, Grapefruit: Picking	94,510 field boxes	100 boxes	945	24	40)
	Oranges: Picking	625,100 field boxes	50 boxes	12,502	24	521) 775
	Lemons: Picking	51,270 field boxes	10 boxes	5,127	24	214)
	Grapes: Picking	21,382 tons	2,400 pounds	17,818	26	686
	Peaches (cling): Picking	1,624 tons	1 ton	1,218†	26	47
	(freestone): Picking	277 tons	1,500 pounds	370	26	15
	Walnuts: Shaking off, picking up and hulling by hand	1,566 tons	200 pounds	15,660	26	603
	Totals			72,884	26	2,804 man-months
October	Alfalfa: Mowing	11,000 acres	10 acres	825†	24	35
	Raking	11,000 acres	20 acres	413†	24	18
	Shocking	11,000 acres	2½ acres (in 5 hours)	3,300 (of 5 hours)†	24	138 (half-time)
	Baling	6,868 tons	3 tons	1,717†	24	72
	Beans: Piling	308 acres	0.66 acre (in 4 hours)	462 (of 4 hours)	12	39 (from 1st to 15th)
	Threshing	4,692 sacks	25 sacks	188	12	16 (from 1st to 15th)
	Corn (ensilage): Cutting by hand, and loading trucks	664 acres	0.5 acre	1,328	24	56
	Sweet potatoes: Picking up, hauling and dumping	75,636 lugs	100 lugs of 32 pounds	606†	12	51 (from 1st to 31st)
	Picking up and packing in field	75,636 lugs	35 lugs of 32 pounds	1,729†	12	144 (from 1st to 31st)
	Sugar beets: Topping and loading	4,568 tons	5 tons	914	24	38

Table continued on next page.

Table 3 continued

Month	Crop and task	Size of task	Output per man-day	Required man-days	Available days	Required number of workers*
October (continued)	Sweet corn: Picking and packing	83,210 lugs	70 lugs	595†	12	50 (from 1st to 15th)
	Tomatoes: Picking	4,270 tons	1 ton	4,270	24	178
	Apples: Picking	3,655 tons	3,000 pounds	2,031	24	85
	Packing	2,454 tons	3,600 pounds	1,364	24	57
	Citrus, Grapefruit: Picking	50,890 field boxes	100 boxes	509	24	22
	Oranges: Picking	704,900 field boxes	50 boxes	14,098	24	588
	Lemons: Picking	68,360 field boxes	12 boxes	5,697	24	238
	Grapes: Picking	21,382 tons	2,400 pounds	17,818	24	743
	Walnuts: Shaking off, picking up, and hulling by hand	1,566 tons	200 pounds	15,660	24	653
	Totals			73,524	24	3,064 man-months
November	Corn (ensilage): Cutting by hand, and loading trucks	465 acres	0.5 acre	930	18	52 (from 1st to 20th)
	Sweet potatoes: Picking up, hauling in and dumping	75,636 lugs	100 lugs of 32 pounds	606†	12	51 (from 1st to 15th)
	Picking up and packing in field	75,636 lugs	35 lugs of 32 pounds	1,729†	12	144 (from 1st to 15th)
	Apples: Pruning	76 acres	0.17 acre	92†	10	10 (from 20th to 30th)
	Picking	522 tons	3,000 pounds	348	10	35 (from 1st to 10th)
	Packing	313 tons	3,600 pounds	174	10	18 (from 1st to 10th)
	Citrus, Oranges: Picking	319,200 field boxes	50 boxes	6,384	24	266
	Lemons: Picking	85,450 field boxes	12 boxes	7,121	24	297
	Grapes: Picking	10,690 tons	2,400 pounds	8,909	12	743 (from 1st to 15th)

Table continued on next page.

Table 3 continued.

Month	Crop and task	Size of task	Output per man-day	Required man-days	Available days	Required number of workers*
November (continued)	Walnuts: Shaking off, picking up, and hulling by hand	348 tons	200 pounds	3,480	10	348 (from 1st to 10th)
	Totals			29,773	24	1,241 man-months
December	Corn (Milo) for grain:					
	Cutting heads by hand	325 acres	0.75 acre	434	10	44 (from 1st to 15th)
	Threshing by stationary	2,782 sacks	100 sacks	28	6	5 (for 6 days)
	Cutting by combine	325 acres	5 acres	22†	21	1
	Apples: Pruning	457 acres	0.17 acre	548†	21	26
	Citrus, Oranges: Picking	492,100 field boxes	50 boxes	9,842	21	469
	Lemons: Picking	85,450 field boxes	16 boxes	5,341	21	255
	Grapes: Pruning	2,638 acres	0.75 acre	2,638	10	264 (from 15th to 31st)
	Burning brush	2,638 acres	2 acres	660†	10	66 (from 15th to 31st)
	Totals			19,513	21	930 man-months

* On a monthly basis, unless otherwise noted.

† Estimated portion of work done by seasonal labor.

‡ Youngberry harvest may require three or four pickers per acre during the peak in June.

§ Fruit thinning varies greatly in amount, and frequently is not done when set is light. Figures given are for a good "set" of fruit.

¶ Data on labor used in drying apricots are from University of California Agr. Ext. Serv. Bul. 388.

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No.	Name	Age	Sex	Occupation	Remarks
1	John Smith	25	M	Farmer	
2	John Smith	25	M	Farmer	
3	John Smith	25	M	Farmer	
4	John Smith	25	M	Farmer	
5	John Smith	25	M	Farmer	
6	John Smith	25	M	Farmer	
7	John Smith	25	M	Farmer	
8	John Smith	25	M	Farmer	
9	John Smith	25	M	Farmer	
10	John Smith	25	M	Farmer	
11	John Smith	25	M	Farmer	
12	John Smith	25	M	Farmer	
13	John Smith	25	M	Farmer	
14	John Smith	25	M	Farmer	
15	John Smith	25	M	Farmer	
16	John Smith	25	M	Farmer	
17	John Smith	25	M	Farmer	
18	John Smith	25	M	Farmer	
19	John Smith	25	M	Farmer	
20	John Smith	25	M	Farmer	
21	John Smith	25	M	Farmer	
22	John Smith	25	M	Farmer	
23	John Smith	25	M	Farmer	
24	John Smith	25	M	Farmer	
25	John Smith	25	M	Farmer	
26	John Smith	25	M	Farmer	
27	John Smith	25	M	Farmer	
28	John Smith	25	M	Farmer	
29	John Smith	25	M	Farmer	
30	John Smith	25	M	Farmer	
31	John Smith	25	M	Farmer	
32	John Smith	25	M	Farmer	
33	John Smith	25	M	Farmer	
34	John Smith	25	M	Farmer	
35	John Smith	25	M	Farmer	
36	John Smith	25	M	Farmer	
37	John Smith	25	M	Farmer	
38	John Smith	25	M	Farmer	
39	John Smith	25	M	Farmer	
40	John Smith	25	M	Farmer	
41	John Smith	25	M	Farmer	
42	John Smith	25	M	Farmer	
43	John Smith	25	M	Farmer	
44	John Smith	25	M	Farmer	
45	John Smith	25	M	Farmer	
46	John Smith	25	M	Farmer	
47	John Smith	25	M	Farmer	
48	John Smith	25	M	Farmer	
49	John Smith	25	M	Farmer	
50	John Smith	25	M	Farmer	
51	John Smith	25	M	Farmer	
52	John Smith	25	M	Farmer	
53	John Smith	25	M	Farmer	
54	John Smith	25	M	Farmer	
55	John Smith	25	M	Farmer	
56	John Smith	25	M	Farmer	
57	John Smith	25	M	Farmer	
58	John Smith	25	M	Farmer	
59	John Smith	25	M	Farmer	
60	John Smith	25	M	Farmer	
61	John Smith	25	M	Farmer	
62	John Smith	25	M	Farmer	
63	John Smith	25	M	Farmer	
64	John Smith	25	M	Farmer	
65	John Smith	25	M	Farmer	
66	John Smith	25	M	Farmer	
67	John Smith	25	M	Farmer	
68	John Smith	25	M	Farmer	
69	John Smith	25	M	Farmer	
70	John Smith	25	M	Farmer	
71	John Smith	25	M	Farmer	
72	John Smith	25	M	Farmer	
73	John Smith	25	M	Farmer	
74	John Smith	25	M	Farmer	
75	John Smith	25	M	Farmer	
76	John Smith	25	M	Farmer	
77	John Smith	25	M	Farmer	
78	John Smith	25	M	Farmer	
79	John Smith	25	M	Farmer	
80	John Smith	25	M	Farmer	
81	John Smith	25	M	Farmer	
82	John Smith	25	M	Farmer	
83	John Smith	25	M	Farmer	
84	John Smith	25	M	Farmer	
85	John Smith	25	M	Farmer	
86	John Smith	25	M	Farmer	
87	John Smith	25	M	Farmer	
88	John Smith	25	M	Farmer	
89	John Smith	25	M	Farmer	
90	John Smith	25	M	Farmer	
91	John Smith	25	M	Farmer	
92	John Smith	25	M	Farmer	
93	John Smith	25	M	Farmer	
94	John Smith	25	M	Farmer	
95	John Smith	25	M	Farmer	
96	John Smith	25	M	Farmer	
97	John Smith	25	M	Farmer	
98	John Smith	25	M	Farmer	
99	John Smith	25	M	Farmer	
100	John Smith	25	M	Farmer	

TABLE 4

Summary of Seasonal Labor Needs by Months

San Bernardino County

Month	Required man-days of seasonal labor	Available work days	Required man-months of seasonal labor
January	50,143	19	2,640
February	54,316	22	2,469
March	53,650	23	2,333
April	83,811	23	3,644
May	70,660	25	2,826
June	59,265	25	2,371
July	55,361	26	2,130
August	39,638	25	1,586
September	72,884	26	2,804
October	73,524	24	3,064
November	29,773	24	1,241
December	19,513	21	930
Total	662,538	--	28,038

TABLE 4
Summary of Seasonal Labor Needs by Month
San Bernardino County

Month	Required man-days of seasonal labor	Available work days	Required man-months of seasonal labor
January	65,142	19	3,428
February	64,316	28	2,297
March	63,880	28	2,281
April	63,811	28	2,279
May	70,880	28	2,531
June	69,288	28	2,474
July	58,281	28	2,081
August	30,838	28	1,099
September	75,884	28	2,709
October	73,884	28	2,638
November	59,773	28	2,134
December	19,713	21	938
Total	682,838	—	28,038

